



# 2001 Toxics Release Inventory

## PUERTO RICO

### Reported Releases and Other Waste Management Activities (in pounds)

	Total
On-site Releases	14,605,814
Air Emissions	14,556,276
Surface Water Discharges	35,624
Underground Injection Class I Wells	0
Underground Injection Class II-V Wells	0
On-site Land Releases to RCRA Subtitle C Landfills	250
Other On-site Land Releases	13,664
Off-site Releases (Transfers Off-site to Disposal)*	1,000,785
<b>Total On- and Off-site Releases</b>	<b>15,606,599</b>
Recycled On-site	19,669,024
Recycled Off-site	13,442,118
Energy Recovery On-site	65,813
Energy Recovery Off-site	37,125,971
Treated On-site	30,653,787
Treated Off-site**	13,442,163
Quantity Released On- and Off-site***	15,581,867
<b>Total Production-related Waste Managed</b>	<b>129,980,743</b>
<b>Non-production-related Waste Managed</b>	<b>26,548</b>
<b>Transfers Off-site for Further Waste Management, including Disposal</b>	
Recycling	12,963,854
Energy Recovery	37,469,365
Treatment	12,089,978
Publicly Owned Treatment Works (POTWs)	961,079
Metals and Metal Category Compounds*	646
Non-metal TRI Chemicals**	960,433
Other Off-site Transfers****	1,392
Transfers Off-site to Disposal (not including metals to POTWs)	1,010,506
<b>Total Transfers Off-site for Further Waste Management, including Disposal</b>	<b>64,496,174</b>

\* Transfers to POTWs of metals and metal category compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

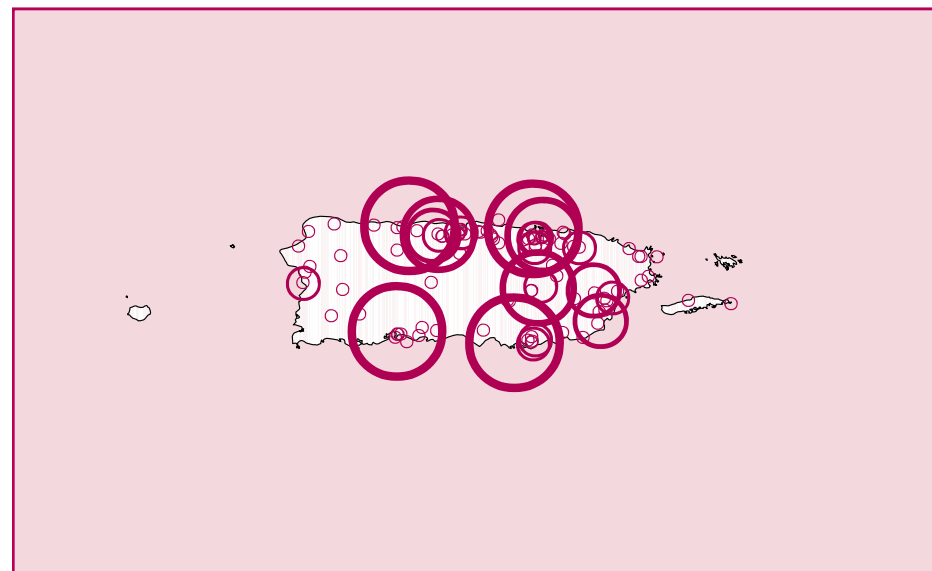
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To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 566-0250  
tri.us@epa.gov



The largest circle in the map represents the largest facility for on-site releases in Puerto Rico. All circles are proportionally-sized to represent the on-site releases at each facility within this territory.

#### State/TRI Data

Population	3,838,361
Square Miles	3,427
Total Facilities	161
Total Forms	554
Form As	68

	Total
<b>National Rank for Total On- and Off-site Releases*</b>	
Rank	42
Pounds	15,606,599
<b>National Rank for Total On-site Releases**</b>	
Rank	42
Pounds	14,605,814
<b>National Rank for Total Releases within State***</b>	
Rank	42
Pounds	15,240,069
<b>National Rank for Production-related Waste Managed</b>	
Rank	36
Pounds	129,980,743

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 2001 Toxics Release Inventory

## PUERTO RICO

### On-site and Off-site Releases for Top Five Chemicals Ranked on Total Releases in the State (All Chemicals)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	8,251,346	0	0	0	0	8,251,346	0	0	0
7664-41-7	Ammonia	1,938,727	306	0	0	600	1,939,633	0	0	600
75-09-2	Dichloromethane	1,610,666	0	0	0	42,282	1,652,948	0	0	42,282
67-56-1	Methanol	1,373,810	0	0	0	182,068	1,555,878	0	4	182,064
—	Zinc compounds	1,166	555	0	0	318,750	320,471	0	318,750	0

### On-site and Off-site Releases for PBT Chemicals Ranked on Total Releases in the State

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Lead compounds	4,093.10	424.30	0.00	0.50	12,317.24	16,835.14	250.00	291.49	12,063.45
7439-92-1	Lead	5,811.50	0.00	0.00	8,669.00	1,069.61	15,550.11	0.00	119.11	950.50
—	Polycyclic aromatic compounds	802.18	3.10	0.00	0.00	0.00	805.28	0.00	0.00	0.00
—	Mercury compounds	417.78	22.80	0.00	0.00	1.80	442.38	0.00	1.80	0.00
191-24-2	Benzo(g,h,i)perylene	8.14	2.10	0.00	0.00	0.00	10.24	0.00	0.00	0.00
7439-97-6	Mercury	0.26	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00
—	Dioxin and dioxin-like compounds	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
—	<i>Dioxin and dioxin-like compounds (in grams)</i>	13.227	0.003	0.000	0.000	0.424	13.653	0.000	0.424	0.000
1336-36-3	Polychlorinated biphenyls (PCBs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
309-00-2	Aldrin	—***	—	—	—	—	—	—	—	—
57-74-9	Chlordane	—***	—	—	—	—	—	—	—	—
76-44-8	Heptachlor	—***	—	—	—	—	—	—	—	—
118-74-1	Hexachlorobenzene	—***	—	—	—	—	—	—	—	—
465-73-6	Isodrin	—***	—	—	—	—	—	—	—	—
72-43-5	Methoxychlor	—***	—	—	—	—	—	—	—	—
29082-74-4	Octachlorostyrene	—***	—	—	—	—	—	—	—	—
40487-42-1	Pendimethalin	—***	—	—	—	—	—	—	—	—
608-93-5	Pentachlorobenzene	—***	—	—	—	—	—	—	—	—
79-94-7	Tetrabromobisphenol A	—***	—	—	—	—	—	—	—	—
8001-35-2	Toxaphene	—***	—	—	—	—	—	—	—	—
1582-09-8	Trifluralin	—***	—	—	—	—	—	—	—	—

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\*\* No reports were submitted for these chemicals.

\*\* The chemical ranking is based on the amounts in this column.



# 2001 Toxics Release Inventory

## PUERTO RICO

### On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (All Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases	
	Underground Injection				On-site Releases to Land			(Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds
Prepa South Coast Power Plant, Guayanilla, Guayanilla	2,421,397	227	0	0	0	0	2,421,624	59,559	0
Prepa Palo Seco Power Plant, Toa Baja, Toa Baja	2,368,394	9,928	0	0	0	0	2,378,322	16,580	0
Prepa Aguirre Power Generation Complex, Aguirre, Salinas	2,205,246	750	0	0	0	0	2,205,996	16,395	0
Prepa Cambalache Combustion Turbine Plant, Arecibo, Arecibo	1,919,241	0	0	0	0	0	1,919,241	22	600
Prepa San Juan Steam Power Plant, Puerto Nuevo, San Juan	1,379,346	1,026	0	0	0	0	1,380,372	13,868	0
Chemsource Corp., Guayama, Guayama	1,169,123	0	0	0	0	0	1,169,123	0	307,179
Abbott Health Prods. Inc., Barceloneta, Barceloneta	1,133,587	0	0	0	0	0	1,133,587	0	0
Schering-Plough Prods. L.L.C., Las Piedras, Las Piedras	313,586	0	0	0	0	0	313,586	0	0
Pharmacia & Upjohn Caribe Inc., Arecibo, Arecibo	221,567	0	0	0	0	0	221,567	0	0
Shell Chemical Yabucoa Inc., Yabucoa, Yabucoa	150,339	19,432	0	0	0	0	169,771	0	0

### On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (PBT Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases	
	Underground Injection				On-site Releases to Land			(Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds
U.S. Navy Naval Station Roosevelt Roads Small Arms Range, Ceiba, Ceiba	0.00	0.00	0.00	0.00	0.00	8,133.00	8,133.00	0.00	0.00
Smart Modular Techs. of PR, Aguada, Aguada	5,856.00	0.00	0.00	0.00	0.00	0.00	5,856.00	0.00	925.00
Prepa Aguirre Power Generation Complex, Aguirre, Salinas	930.11	422.80	0.00	0.00	0.00	0.00	1,352.91	169.50	0.00
Puerto Rican Cement Co. Inc., Ponce, Ponce	1,082.00	0.00	0.00	0.00	0.00	0.00	1,082.00	0.00	0.00
Coatings Inc. & Co., Bayamon, Bayamon	735.00	0.00	0.00	0.00	0.00	0.00	735.00	0.00	0.00
Prepa South Coast Power Plant, Guayanilla, Guayanilla	598.21	20.10	0.00	0.00	0.00	0.00	618.31	34.10	0.00
U.S. Navy AFWTF Live Impact Area, Vieques, Vieques	0.00	0.00	0.00	0.00	0.00	536.00	536.00	0.00	0.00
Solectron of Puerto Rico Aguadilla Plant, Aguadilla, Aguadilla	500.00	0.00	0.00	0.00	0.00	0.00	500.00	0.00	0.00
Prepa Palo Seco Power Plant, Toa Baja, Toa Baja	431.31	2.10	0.00	0.00	0.00	0.00	433.41	27.00	0.00
Safety-Kleen Envirosystems Co. of Puerto Rico Inc., Manati, Manati	250.60	0.00	0.00	0.00	0.00	0.00	250.60	0.00	2,638.20

\* The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 2001 Toxics Release Inventory

## PUERTO RICO

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (All Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Prepa South Coast Power Plant, Guayanilla, Guayanilla	0	0	0	0	0	0	2,480,461	2,480,461	0
Prepa Palo Seco Power Plant, Toa Baja, Toa Baja	0	0	0	0	0	0	2,394,424	2,394,424	0
Prepa Aguirre Power Generation Complex, Aguirre, Salinas	0	0	0	0	0	0	2,221,890	2,221,890	0
Prepa Cambalache Combustion Turbine Plant, Arecibo, Arecibo	0	0	0	0	0	0	1,919,382	1,919,382	0
Chemsource Corp., Guayama, Guayama	1,767,619	104,357	0	0	3,757,915	1,322,758	1,474,438	8,427,087	0
Prepa San Juan Steam Power Plant, Puerto Nuevo, San Juan	0	0	0	0	0	0	1,394,237	1,394,237	0
Abbott Health Prods. Inc., Barceloneta, Barceloneta	10,721,061	0	0	2,988,872	4,887,084	14,290	1,135,467	19,746,774	5,849
Schering-Plough Prods. L.L.C., Las Piedras, Las Piedras	0	383,936	0	163,792	0	0	366,845	914,573	0
Cutler-Hammer de P.R. Co. Arecibo Plant, Arecibo, Arecibo	0	1,089,264	0	0	0	4,450	309,403	1,403,117	0
Pharmacia & Upjohn Caribe Inc., Arecibo, Arecibo	0	3,260,585	0	3,200,338	0	2,219,888	221,567	8,902,379	0

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (PBT Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Solectron of Puerto Rico Aguadilla Plant, Aguadilla, Aguadilla	0.00	24,953.00	0.00	0.00	0.00	0.00	25,403.00	50,356.00	0.00
U.S. Navy Naval Station Roosevelt Roads Small Arms Range, Ceiba, Ceiba	0.00	0.00	0.00	0.00	0.00	0.00	8,133.00	8,133.00	0.00
Smart Modular Techs. of PR, Aguada, Aguada	0.00	24,736.00	0.00	0.00	0.00	0.00	6,781.00	31,517.00	0.00
Du Pont Electronics Microcircuits Inds. Ltd., Manati, Manati	0.00	0.00	0.00	0.00	0.00	0.00	6,274.00	6,274.00	0.00
Safety-Kleen Envirosystems Co. of Puerto Rico Inc., Manati, Manati	0.00	0.00	0.00	0.00	0.00	0.00	2,889.00	2,889.00	0.00
Storage Tech. de PR, Ponce, Ponce	0.00	2,000.00	0.00	0.00	0.00	0.00	2,629.00	4,629.00	0.00
Prepa Aguirre Power Generation Complex, Aguirre, Salinas	0.00	0.00	0.00	0.00	0.00	0.00	1,522.00	1,522.00	0.00
Puerto Rican Cement Co. Inc., Ponce, Ponce	0.00	0.00	0.00	0.00	0.00	0.00	1,082.00	1,082.00	0.00
Coatings Inc. & Co., Bayamon, Bayamon	0.00	0.00	0.00	0.00	0.00	0.00	735.00	735.00	0.00
Owens-Illinois De Puerto Rico, Vega Alta, Vega Alta	0.00	0.00	0.00	0.00	0.00	0.00	685.00	685.00	0.00

\* The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.